

=====

Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2008; month=11; day=6; hr=9; min=35; sec=23; ms=48;]

=====

Reviewer Comments:

<210> 9

<211> 9600

<212> DNA

<213> Artificial sequence

<220>

<221> promoter

<222> (5649)..(5859)

<223> Promoter GAL 1 (pVP2)

<220>

<221> promoter

<222> (7402)..(8080)

<223> Promoter GAL 2 (VP3-GFP)

<220>

<221> CDS

<222> (8086)..(9597)

<223> VP3-GFP ORF

For all sequences using "Artificial sequence", for numeric identifier <213>, a mandatory feature is required to explain the source of the genetic material. The feature consists of <220>, which remains blank, and <223>, which states the source of the genetic material. To explain the source, if the sequence is put together from several organisms, please list those organisms. If the sequence is made in the laboratory, please indicate that the sequence is synthesized. These errors appear in other sequences in the sequence listing. Please make all necessary changes.

Application No: 10576988 Version No: 1.0

Input Set:

Output Set:

Started: 2008-10-08 19:20:50.704
Finished: 2008-10-08 19:20:51.787
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 83 ms
Total Warnings: 10
Total Errors: 1
No. of SeqIDs Defined: 10
Actual SeqID Count: 10

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)

SEQUENCE LISTING

<110> Rodriguez Aguirre et al.

<120> EMPTY CAPSIDs (VLPs(-VP4)) OF THE INFECTIOUS BURSAL DISEASE VIRUS (IBDV), OBTAINMENT PROCESS AND APPLICATIONS

<130> 8026-74818-01

<140> 10576988

<141> 2008-10-08

<150> PCT/EP2005/000694

<151> 2005-01-21

<150> ES P200400121

<151> 2004-01-21

<160> 10

<170> PatentIn version 3.1

<210> 1

<211> 35

<212> DNA

<213> Artificial sequence

<220>

<223> Oligo I primer

<400> 1

gcgcaagatct atgacaaacc tgtcagatca aaccc

35

<210> 2

<211> 34

<212> DNA

<213> Artificial sequence

<220>

<223> Oligo II primer

<400> 2

gcgcaagctt aggcgagagt cagctgcctt atgc

34

<210> 3

<211> 7595

<212> DNA

<213> Artificial sequence

<220>

<223> Plasmid pFBD/pVP2-his-VP3

<220>

<221> promoter
<222> (157)..(285)
<223> Promotor ppolh

<220>
<221> CDS
<222> (291)..(1289)
<223> pVP2 ORF

<220>
<221> promoter
<222> (7443)..(7503)
<223> Promoter p10

<400> 3
gggtgatcaa gtcttcgtcg agtgattgt aataaaatgt aatttacagt atagtatttt 60
aattaatata caaatgattt gataataatt cttatthaac tataatataat tgtgttgggt 120
tgaattaaag gtccgtatac tccggaatat taatagatca tggagataat taaaatgata 180
accatctcgc aaataaaataa gtattttact gtttcgtaa cagtttgtta ataaaaaaac 240
ctataaataat tccggattat tcataccgtc ccaccatcg ggcggatct atg aca 296
Met Thr
1
aac ctg tca gat caa acc cag cag att gtt ccg ttc ata cgg agc ctt 344
Asn Leu Ser Asp Gln Thr Gln Gln Ile Val Pro Phe Ile Arg Ser Leu
5 10 15
ctg atg cca aca acc gga ccg gcg tcc att ccg gac gac acc ctg gag 392
Leu Met Pro Thr Thr Gly Pro Ala Ser Ile Pro Asp Asp Thr Leu Glu
20 25 30
aag cac act ctc agg tca gag acc tcg acc tac aat ttg act gtg ggg 440
Lys His Thr Leu Arg Ser Glu Thr Ser Thr Tyr Asn Leu Thr Val Gly
35 40 45 50
gac aca ggg tca ggg cta att gtc ttt ttc cct gga ttc cct ggc tca 488
Asp Thr Gly Ser Gly Leu Ile Val Phe Phe Pro Gly Phe Pro Gly Ser
55 60 65
att gtg ggt gct cac tac aca ctg cag ggc aat ggg aac tac aag ttc 536
Ile Val Gly Ala His Tyr Thr Leu Gln Gly Asn Gly Asn Tyr Lys Phe
70 75 80
gat cag atg ctc ctg act gcc cag aac cta ccg gcc agt tac aac tac 584
Asp Gln Met Leu Leu Thr Ala Gln Asn Leu Pro Ala Ser Tyr Asn Tyr
85 90 95
tgc agg cta gtg agt cgg agt ctc aca gtg agg tca agc aca ctt cct 632
Cys Arg Leu Val Ser Arg Ser Leu Thr Val Arg Ser Ser Thr Leu Pro
100 105 110
ggt ggc gtt tat gca cta aac ggc acc ata aac gcc gtg acc ttc caa 680
Gly Gly Val Tyr Ala Leu Asn Gly Thr Ile Asn Ala Val Thr Phe Gln

115	120	125	130													
gga	agc	ctg	agt	gaa	ctg	aca	gat	gtt	agc	tac	aat	ggg	ttg	atg	tct	728
Gly	Ser	Leu	Ser	Glu	Leu	Thr	Asp	Val	Ser	Tyr	Asn	Gly	Leu	Met	Ser	
135				140					145							
gca	aca	gcc	aac	atc	aac	gac	aaa	att	ggg	aac	gtc	cta	gta	ggg	gaa	776
Ala	Thr	Ala	Asn	Ile	Asn	Asp	Lys	Ile	Gly	Asn	Val	Leu	Val	Gly	Glu	
150				155					160							
ggg	gtc	acc	gtc	ctc	agc	tta	ccc	aca	tca	tat	gat	ctt	ggg	tat	gtg	824
Gly	Val	Thr	Val	Leu	Ser	Leu	Pro	Thr	Ser	Tyr	Asp	Leu	Gly	Tyr	Val	
165				170				175								
agg	ctt	ggt	gac	ccc	att	ccc	gca	ata	ggg	ctt	gac	cca	aaa	atg	gta	872
Arg	Leu	Gly	Asp	Pro	Ile	Pro	Ala	Ile	Gly	Leu	Asp	Pro	Lys	Met	Val	
180				185				190								
gcc	aca	tgt	gac	agc	agt	gac	agg	ccc	aga	gtc	tac	acc	ata	act	gca	920
Ala	Thr	Cys	Asp	Ser	Ser	Asp	Arg	Pro	Arg	Val	Tyr	Thr	Ile	Thr	Ala	
195				200				205				210				
gcc	gat	gat	tac	caa	ttc	tca	tca	cag	tac	caa	cca	ggt	ggg	gta	aca	968
Ala	Asp	Asp	Tyr	Gln	Phe	Ser	Ser	Gln	Tyr	Gln	Pro	Gly	Gly	Val	Thr	
215				220				225								
atc	aca	ctg	ttc	tca	gcc	aac	att	gat	gcc	atc	aca	agc	ctc	agc	gtt	1016
Ile	Thr	Leu	Phe	Ser	Ala	Asn	Ile	Asp	Ala	Ile	Thr	Ser	Leu	Ser	Val	
230				235				240								
ggg	gga	gag	ctc	gtg	ttt	cga	aca	agc	gtc	cac	ggc	ctt	gta	ctg	ggc	1064
Gly	Gly	Glu	Leu	Val	Phe	Arg	Thr	Ser	Val	His	Gly	Leu	Val	Leu	Gly	
245				250				255								
gcc	acc	atc	tac	ctc	ata	ggc	ttt	gat	ggg	aca	acg	gta	atc	acc	agg	1112
Ala	Thr	Ile	Tyr	Leu	Ile	Gly	Phe	Asp	Gly	Thr	Thr	Val	Ile	Thr	Arg	
260				265				270								
gct	gtg	gcc	gca	aac	aat	ggg	ctg	acg	acc	ggc	acc	gac	aac	ctt	atg	1160
Ala	Val	Ala	Ala	Asn	Asn	Gly	Leu	Thr	Thr	Gly	Thr	Asp	Asn	Leu	Met	
275				280				285				290				
cca	tcc	aat	ctt	gtg	att	cca	aca	aac	gag	ata	acc	cag	cca	atc	aca	1208
Pro	Phe	Asn	Leu	Val	Ile	Pro	Thr	Asn	Glu	Ile	Thr	Gln	Pro	Ile	Thr	
295				300				305								
tcc	atc	aaa	ctg	gag	ata	gtg	acc	tcc	aaa	agt	ggt	ggt	cag	gca	ggg	1256
Ser	Ile	Lys	Leu	Glu	Ile	Val	Thr	Ser	Lys	Ser	Gly	Gly	Gln	Ala	Gly	
310				315				320								
gat	cag	atg	tca	tgg	tcg	gca	aga	ggg	agc	cta	gcagtgacga	tccatggtgg			1309	
Asp	Gln	Met	Ser	Trp	Ser	Ala	Arg	Gly	Ser	Leu						
325				330												
caactatcca	ggggccctcc	gtcccgta	cac	gct	agt	gggcc	tac	gaa	agag	tgg	caacagg				1369	
atccgtcg	tt	acgg	tcg	ctg	gggt	gag	caa	ctt	cgag	ctg	atccc	aaatc	ctg	aaact	agc	1429

aaagaacctg gttacagaat acggccgatt tgaccagga gccatgaact acacaaaatt 1489
gatactgagt gagagggacc gtcttggcat caagaccgtc tggccaacaa gggagtacac 1549
tgacttttgt gaatacttca tggaggtggc cgacctcaac tctccctga agattgcagg 1609
agcattcggc ttcaaagaca taatccgggc cataaggagg atagctgtgc cggtggtctc 1669
cacattgttc ccacactgccc ctcccttagc ccatgcaatt ggggaaggtg tagactacct 1729
gctgggcgt gaggcccagg ccgcttcagg aactgctcga gccgcgtcag gaaaagcaag 1789
agctgcctca ggccgcataa ggcagctgac tctcgctaa gcttgcgag aagtactaga 1849
ggatcataat cagccatacc acattttag aggtttact tgctttaaaa aacctcccac 1909
acctccccct gaacctgaaa cataaaatga atgcaattgt tggtgttaac ttgtttattg 1969
cagcttataa tggttacaaa taaagcaata gcatcacaaa tttcacaaat aaagcatttt 2029
tttcaactgca ttctagttgt ggtttgcctt aactcatcaa tgtatctt catgtctgga 2089
tctgatcaact gcttgaggct aggagatccg aaccagataa gtgaaatcta gttccaaact 2149
attttgtcat tttaatttt cgtattagct tacgacgcta cacccagttc ccatctattt 2209
tgtcaactttt ccctaaataa tccttaaaaaa ctccatttcc acccctccca gttccaaact 2269
attttgtccg cccacagcgg ggcatttttcc ttctgttat gtttttaatc aaacatcctg 2329
ccaactccat gtgacaaacc gtcatctcg gctactttt ctctgtcaca gaatgaaaat 2389
tttctgtca tctcttcgtt attaatgttt gtaattgact gaatatcaac gcttatttgc 2449
agcctgaatg gcgaatgggac cgccgcgtt agcggcgtat taagcgccggc ggggtgtggc 2509
gttacgcgca gcgtgaccgc tacacttgcc agcgccttag cgccgcgtcc ttctgtttc 2569
ttcccttcct ttctcgccac gttcgccggc ttccccgtc aagctctaaa tcgggggttc 2629
cctttagggt tccgatttag tgcttacgg cacctcgacc ccaaaaaact tgattagggt 2689
gatggttcac gtatggggcc atcgccctga tagacggttt ttgcgccttt gacgttggag 2749
tccacgttct ttaatagtgg actctgttc caaactggaa caacactcaa ccctatctcg 2809
gtctattctt ttgatttata agggattttg ccgatttcgg cctattggtt aaaaaatgag 2869
ctgatttaac aaaaatttaa cgcgaaatttt aacaaaatat taacgtttac aatttcaggt 2929
ggcacttttc gggaaatgt gcgcggacc cctattgtt tattttcta aatacattca 2989
aatatgtatc cgctcatgag acaataaccc tgataaatgc ttcaataata ttgaaaaagg 3049
aagagtatga gtattcaaca ttccgtgtc gcccatttc cctttttgc ggcattttgc 3109

cttcctgttt ttgctcaccc agaaacgctg gtgaaagtaa aagatgctga agatcagttg 3169
ggtgcacgag tgggttacat cgaactggat ctcAACAGCG gtaagatcct tgagagttt 3229
cgccccgaag aacgtttcc aatgatgagc actttaaag ttctgtatg tggcgccgta 3289
ttatcccgta ttgacgcccgg gcaagagcaa ctggcgcc gcatacacta ttctcagaat 3349
gacttggttg agtactcacc agtcacagaa aagcatctt a cgatggcat gacagtaaga 3409
gaattatgca gtgctgccat aaccatgagt gataacactg cggccaactt acttctgaca 3469
acgatcgag gaccgaagga gctaaccgct ttttgcaca acatggggga tcatgttaact 3529
cgccctgatc gttgggaacc ggagctgaat gaagccatac caaacgacga gcgtgacacc 3589
acgatgcctg tagcaatggc aacaacgttg cgcaaactat taactggcga actacttact 3649
ctagcttccc ggcaacaatt aatagactgg atggaggcgg ataaagttgc aggaccactt 3709
ctgcgctcg cccttccggc tggctggttt attgctgata aatctggagc cggtgagcgt 3769
gggtctcgcg gtatcattgc agcactgggg ccagatggta agccctcccg tatcgttagtt 3829
atctacacga cggggagtca ggcaactatg gatgaacgaa atagacagat cgctgagata 3889
ggtgccctcac tgattaagca ttggtaactg tcagaccaag tttactcata tatactttag 3949
attgatttaa aacttcattt ttaatttaaa aggatctagg tgaagatcct tttgataat 4009
ctcatgacca aaatccctta acgtgagtt tcgttccact gagcgtcaga ccccgtagaa 4069
aagatcaaag gatcttcttg agatccttt tttctgcgcg taatctgctg cttgcaaaca 4129
aaaaaaaccac cgctaccagc ggtgggttgt ttgcggatc aagagctacc aactctttt 4189
ccgaaggtaa ctggcttcag cagagcgcag ataccaaata ctgtccttct agttagccg 4249
tagttaggcc accacttcaa gaactctgtt gcaccgccta catacctcgc tctgctaattc 4309
ctgttaccag tggctgctgc cagtggcgat aagtctgtc ttaccgggtt ggactcaaga 4369
cgatagttac cggataaggc gcagcggcgtg ggctgaacgg ggggttcgtg cacacagccc 4429
agcttggagc gaacgaccta caccgaactg agataacctac agcgtgagca ttgagaaagc 4489
gccacgcttc ccgaagggag aaaggcggac aggtatccgg taagcggcag ggtcgaaaca 4549
ggagagcgca cgagggagct tccaggggg aacgcctggt atctttatag tccctgtcggt 4609
tttcgcccacc tctgacttga gcgtcgattt ttgtgtatgct cgtcagggggg gcggagccta 4669
tggaaaaacg ccagcaacgc ggcctttta cggttcctgg cctttgctg gcctttgct 4729
cacatgttct ttcctgcgtt atccctgtat tctgtggata accgtattac cgctttgag 4789
ttagctgata ccgctcgccg cagccgaacg accgagcgcg gcgagtcgt gagcgagggaa 4849

gcggaagagc gcctgatgcg gtattttctc cttacgcata tgtgcggtat ttcacaccgc 4909
agaccagccg cgtaacctgg caaaatcggt tacggtttag taataaatgg atgccctgcg 4969
taagcgggtg tggcgacataaaagtctt aaactgaaca aaatagatct aaactatgac 5029
aataaagtct taaactagac agaatagttg taaactgaaa tcagtcagg tatgctgtga 5089
aaaagcatac tggacttttg ttatggctaa agcaaactct tcattttctg aagtgcaa 5149
tgcccgctgt attaaagagg ggcgtggcca agggcatggt aaagactata ttgcggcgt 5209
tgtgacaatt taccgaacaa ctcccgccgg gggaaagccga tctcggttg aacgaattgt 5269
taggtggcgg tacttgggtc gatatcaaag tgcatacatt cttcccgat gccaacttt 5329
gtatagagag ccactgcggg atcgtcaccg taatctgctt gcacgttagat cacataagca 5389
ccaagcgcgt tggcctcatg cttgaggaga ttgatgagcg cggtggcaat gcccctgcctc 5449
cggtgctcgc cggagactgc gagatcatag atataagatct cactacgcgg ctgctcaa 5509
ctggcagaa cgtaagccgc gagagcgcca acaaccgctt cttggtcgaa ggcagcaagc 5569
gcgatgaatg tcttactacg gagcaagttc ccgaggtaat cggagtccgg ctgatgttg 5629
gagtaggtgg ctacgtctcc gaactcacga ccgaaaagat caagagcagc ccgcattggat 5689
ttgacttggt cagggccgag cctacatgtc cgaatgatgc ccataactga gcccaccta 5749
tttgttttag ggcgactgcc ctgctgcgt acaatcggtc tgctgcgtaa catcggtc 5809
gctccataac atcaaacatc gacccacggc gtaacgcgt tgctgatgg atgcccagg 5869
catagactgt aaaaaaaaaac agtcataaca agccatgaaa accgccactg cgccgttacc 5929
accgctgcgt tcggtaagg ttctggacca gttgcgttag cgcatcgt acttgcatta 5989
cagttacga accgaacagg cttatgtcaa ctgggttcgt gccttcatcc gtttccacgg 6049
tgtgcgtcac ccggcaacct tgggcagcag cgaagtcgag gcatttctgt cctggctggc 6109
gaacgagcgc aagggttcgg tctccacgca tcgtcaggca ttggcggcct tgctgttctt 6169
ctacggcaag gtgctgtca cggatctgcc ctggcttcag gagatcggtg gacctcgcc 6229
gtcgccggcgc ttgcccgtgg tgctgacccc ggtgaagtg gttcgcatcc tcggtttct 6289
ggaaggcgcgag catcgttgt tcgcccagga ctctagctat agttctagtg gttggcctac 6349
gtacccgtag tggctatggc agggcttgcc gccccgacgt tggctgcgtgc ccctgggcct 6409
tcacccgaac ttgggggttg gggtggggaa aaggaagaaa cgcggcgta ttggtccaa 6469
tgggtctcg gtgggggtatc gacagagtgc cagccctggg accgaacccc gcgttatga 6529

acaaacgacc caacacccgt gcgtttatt ctgttttt attgcgtca tagcgccgggt	6589
tccttcgggt attgtctcct tccgtgttc agttagcctc ccccatctcc cggtaccgca	6649
tgccctcgaga ctgcaggctc tagattcgaa agcggccgca actagtgagc tcgtcgacgt	6709
aggccttga attccggatc ctcactcaag gtccatcatca gagacggtcc tgatccagcg	6769
gcccgccga ccagggggtc tctgtgttgg agcattgggt tttggatgg gctttggtag	6829
agcccgctg ggattgcgtat gcttcatctc catcgagtc aagagcagat ctttcatctg	6889
ttcttggttt gggccacgtc catgggtat ttcatagact ttggcaactt cgtctatgaa	6949
agcttgggtt ggctctgcct gtccctggagc cccgtagatc gacgtagctg cccttaggat	7009
ttgttcttct gatgccaacc ggctttctc tgcacgcacg tagtctagat agtccctcggt	7069
tgggtccgggt atttctcggt tttctgcca gtactttacc tggcctgggc ttggccctcg	7129
gtgcccattt agtgctaccc attctggtgt tgcaaagtag atgcccattt tctccatctt	7189
ctttgagatc cgtgtgtctt tttccctctg tgcttcctct ggtgtggggc cccgagcctc	7249
cactccgtag cctgctgtcc cgtacttggc cctttgcac ttgctgcctg cttgtgggtgc	7309
gtttgcaaga aaatttcgca tccgatgggc gttcggtcg ctgagtgca agttggccat	7369
gtcagtcaca atccattct cttccagcca catgaacaca ctgagtgca attgaaatag	7429
tgggtccacg ttggctgctg cttccattgc tctgacggca ctctcgagtt cgggggtctc	7489
tttgaactct gatgcagcca tggcgccctg aaaatacagg ttttcgggtcg ttggatatac	7549
gtaatcgtga tggtgatggt gatggtagta cgacatggtt tcggac	7595

<210> 4
 <211> 333
 <212> PRT
 <213> Artificial sequence

<220>
 <223> pVP2-his-VP3 protein

<400> 4
 Met Thr Asn Leu Ser Asp Gln Thr Gln Gln Ile Val Pro Phe Ile Arg
 1 5 10 15

Ser Leu Leu Met Pro Thr Thr Gly Pro Ala Ser Ile Pro Asp Asp Thr
 20 25 30

Leu Glu Lys His Thr Leu Arg Ser Glu Thr Ser Thr Tyr Asn Leu Thr
 35 40 45

Val Gly Asp Thr Gly Ser Gly Leu Ile Val Phe Phe Pro Gly Phe Pro
 50 55 60

Gly Ser Ile Val Gly Ala His Tyr Thr Leu Gln Gly Asn Gly Asn Tyr
65 70 75 80

Lys Phe Asp Gln Met Leu Leu Thr Ala Gln Asn Leu Pro Ala Ser Tyr
85 90 95

Asn Tyr Cys Arg Leu Val Ser Arg Ser Leu Thr Val Arg Ser Ser Thr
100 105 110

Leu Pro Gly Gly Val Tyr Ala Leu Asn Gly Thr Ile Asn Ala Val Thr
115 120 125

Phe Gln Gly Ser Leu Ser Glu Leu Thr Asp Val Ser Tyr Asn Gly Leu
130 135 140

Met Ser Ala Thr Ala Asn Ile Asn Asp Lys Ile Gly Asn Val Leu Val
145 150 155 160

Gly Glu Gly Val Thr Val Leu Ser Leu Pro Thr Ser Tyr Asp Leu Gly
165 170 175

Tyr Val Arg Leu Gly Asp Pro Ile Pro Ala Ile Gly Leu Asp Pro Lys
180 185 190

Met Val Ala Thr Cys Asp Ser Ser Asp Arg Pro Arg Val Tyr Thr Ile
195 200 205

Thr Ala Ala Asp Asp Tyr Gln Phe Ser Ser Gln Tyr Gln Pro Gly Gly
210 215 220

Val Thr Ile Thr Leu Phe Ser Ala Asn Ile Asp Ala Ile Thr Ser Leu
225 230 235 240

Ser Val Gly Gly Glu Leu Val Phe Arg Thr Ser Val His Gly Leu Val
245 250 255

Leu Gly Ala Thr Ile Tyr Leu Ile Gly Phe Asp Gly Thr Thr Val Ile
260 265 270

Thr Arg Ala Val Ala Ala Asn Asn Gly Leu Thr Thr Gly Thr Asp Asn
275 280 285

Leu Met Pro Phe Asn Leu Val Ile Pro Thr Asn Glu Ile Thr Gln Pro
290 295 300

Ile Thr Ser Ile Lys Leu Glu Ile Val Thr Ser Lys Ser Gly Gly Gln
305 310 315 320

Ala Gly Asp Gln Met Ser Trp Ser Ala Arg Gly Ser Leu
325 330

<210> 5

<211> 35

<212> DNA

<213> Artificial sequence

<220>

<223> Oligo III primer

<400> 5

gcgcagatct atgacaaacc tgtcagatca aaccc

35

<210> 6

<211> 34

<212> DNA

<213> Artificial sequence

<220>

<223> Oligo IV primer

<400> 6

gcgcaagctt aggcgagagt cagctgcctt atgc

34

<210> 7

<211> 33

<212> DNA

<213> Artificial sequence

<220>

<223> Oligo V primer

<400> 7

gcgcgaattc gatggcatca gagttcaaag aga

33

<210>